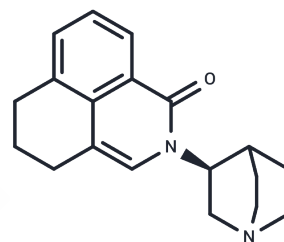


Dehydro Palonosetron

Chemical Properties

CAS No. :	135729-56-5
Formula:	C ₁₉ H ₂₂ N ₂ O
Molecular Weight:	294.39
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dehydro Palonosetron (RS 42358-197) is a potent, selective, and orally active 5-HT ₃ receptor antagonist. It does not affect the activity of 5-HT ₁ receptors, 5-HT ₂ receptors, or 5-HT ₄ receptors.
Targets(IC ₅₀)	5-HT Receptor
In vitro	In in vitro assays, Dehydro Palonosetron (RS 42358-197) acts as a competitive antagonist, counteracting 5-HT-induced contractions in guinea pig ileum with an estimated pA ₂ value of 8.1. Dehydro Palonosetron shows no agonistic or antagonistic activity on 5-HT ₁ -like receptors, 5-HT ₂ receptors, or 5-HT ₄ receptors.
In vivo	In anesthetized rats, Dehydro Palonosetron (RS 42358-197) was administered intravenously, intraduodenally, or transdermally, and it inhibited the 2-methyl 5-HT induced Bezold-Jarisch reflex in a dose-dependent manner, with ID ₅₀ values of 0.05 µg/kg (i.v.), 5.7 µg/kg (i.d.), and 11.6 µg/chamber. Additionally, Dehydro Palonosetron (RS 42358-197; 0.01 ng/kg-10 mg/kg; oral; single dose) reduced mouse behaviors inhibited by aversive stimuli in a light/dark test box.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3969 mL	16.9843 mL	33.9685 mL
5 mM	0.6794 mL	3.3969 mL	6.7937 mL
10 mM	0.3397 mL	1.6984 mL	3.3969 mL
50 mM	0.0679 mL	0.3397 mL	0.6794 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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